

SAT Report

PMN Number: P-09-0045

SAT Date: 11/11/2008

Print Date: 11/26/2014

Related cases:



Concern levels:

Type of Concern:	<u>Health</u>	<u>Eco</u>	<u>Comments</u>
Level of Concern:	1-2	1	

<u>Persistence</u>	<u>Bioaccum</u>	<u>Toxicity</u>	<u>Comments</u>
1	1	1	
		Awaiting	
		Human Health	
		Entry	
		Awaiting	
		Human Health	
		Entry	
		Awaiting	
		Human Health	
		Entry	

Exposure Based Review:

Health: Yes

Ecotox: No

Routes of exposure:

Health: Inhalation, dermal

Ecotox: No releases to water

Fate: ;

Keywords:

Keywords:

Summary of Assessment:

Fate:

Fate Summary: P-09-0045**FATE:**

Liquid with MP < -10 EC (M)

log Kow = 1.66 (E);

S = 10 g/L at 25 EC (M)

VP = 1.53E-4 torr at 25 EC (M)

BP = 291 EC (M)

H < 1.00E-8 (E)

log Koc = 1.01 (E)

log Fish BCF = -0.07 (E)

POTW removal (%) = 50-90 via biodeg; OECD 301F(Mano Resp): 117.4%/28d.

Time for complete ultimate aerobic biodeg = wk

Sorption to soils/sediments = low

PBT Potential: P1B1

*CEB FATE: Migration to ground water = slow due to biodeg

Health:

Health Summary: Absorption is good all routes, based on analogs. There is concern for irritation to the eye and skin, based on data in the PMN MSDS, and uncertain concern for developmental toxicity, based on small benzene derivatives.

Ecotox:

Test Organism	Test Type	Test End Point	Predicted	Measured	Comments
fish	96-h	LC50	210	204	
daphnid	48-h	LC50	220	336	
green algal	96-h	EC50	140	171 (growth rate) 83 (yield)	
fish	—	chronic value	26	49	
daphnid	—	chronic value	11	333	
algal	—	chronic value	13	40 g rate & yield	
Sewage Sludge	3-h	EC50	—		
Sewage Sludge	—	Chronic Value	—		

Ecotox Values Comments:

Factors	Values	Comments
Assessment Factor	10	
Concentration of Concern (ppb)	1000	

SARs		
SAR Class		
Ecotox Category		

Ecotox Factors Comments:

SAT Chair: J. Kwiat

Focus Report
New Chemicals Program
PMN Number: **P-09-0045**

Focus Date: 12/01/2008 12:00:00 AM Report Status: Completed
Consolidated Set:
Focus Chair: Jim Alwood Contractor: Paul Sohi

I. Notice Information

Submitter: [REDACTED] CAS Number: 51730-94-0
Chemical Name: Propanol, 1(or 2)-(methyl-2-phenoxyethoxy)-
Use: 1. Chemical intermediate for producing surfactants [REDACTED]. 2. Formulation component for drilling fluid (mining aid) [REDACTED].

Other Uses: [REDACTED]

PV-Max: [REDACTED]

Manufacture: X Import:

II. SAT Results

(1) Health Rating: 1-2 Eco Rating: 1 Comments: ;

Occupational: 1C Non-Occupational: NR Environmental: NR

(1) PBT: 1 1 1 Comments:

III. OTHER FACTORS

Categories:

Health Chemical Category: Ecotox Category:

Related Cases/Regulatory History:

Health related Cases: [REDACTED]

Ecotox Related Cases: [REDACTED] Additional information continued from p. 2: Estimated Data (EPI, MP entered as 20°C): For structure drawn on p.1: BP = 300.8°C; VP = 0.000128 torr/25°C; S-H₂O = 15.3 g/L; Log P = 1.66 For minor isomer 1-methyl-2-phenoxyethyl 1-hydroxy-2-methyl ether: BP = 305.5°C; VP = 0.000095 torr/25°C; S-H₂O = 15.3 g/L; Log P = 1.66 Estimated Data (NOMO5 with BP = 291°C): VP = 0.00022 torr/25°C

Regulatory History: [REDACTED]

MSDS/Label Information:

MSDS: Yes Label: No
General Equipment: Use chemical goggles. // Wear clean, body-covering clothing. // Use gloves chemically resistant to this material (examples include butyl rubber, ethyl vinyl alcohol laminate, viton, neoprene, natural rubber, polyvinyl chloride, nitrile/butadiene rubber). // Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Respirator: For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator: organic vapor cartridge with a particulate pre-filter.
Health Effects: May cause severe eye irritation. May cause slight corneal injury. // Prolonged contact may cause slight skin irritation with local redness. // Prolonged skin contact is unlikely to result in absorption of harmful amounts through skin. // At room temperature, vapors are minimal due to low volatility. Vapors from heated material or mist may be hazardous on single exposure. // Low toxicity if swallowed.
TLV/PEL (PMN or raw material): - none established

Exposure Based Information:

Exposure Based Review: Y Exposure Based Review (Health): Y
Exposure Based Review (Eco): N Exposure Based (Occupational): No

IV. Summary of SAT Assessment

Fate:

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Ecotox:

Ecotox Values:
Fish 96-h LC50: 210(P)
Daphnid 48-h LC50: 220(P)
Green algal 96-h EC50: 140(P)
Fish Chronic Value: 26(P)
Daphnid ChV: 11(P)
Algal ChV: 13(P)

Ecotox values comments: Predictions are based on SARs for neutral organic chemicals; SAR chemical class = alcohol-ether; MW210; liquid with mp = < -10 C (M); log Kow = 1.9 (ClogP), 1.7 (EPI); S = 6800 mg/L to 11 g/L at 20 C (P); pH7; effective concentrations based on 100% active ingredients and mean measured concentrations; DW hardness <150.0 mg/L as CaCO₃; and DW TOC <2.0 mg/L;

Ecotox Factors:

Assessment Factor: 10
Concern Concentration: 1000

V. Summary of Exposures/Releases

Engineering Summary: P-09-0045

Exposures/Releases	Release	Release	Release
Scenario			
Sites			
Media			
Descriptor A	Conservative	High End	Output 2
Quantity A (kg/site/day)			
Frequency A (day/year)			
Descriptor B			
Quantity B (kg/site/day)			
Frequency B (day/year)			
From			
Workers			
Exposure Type			

Engineering Summary: Exposures/Releases	Release	Release	Release
Scenario			
Sites			
Media			
Descriptor A	High End	Submitter High End	Conservative
Quantity A (kg/site/day)			
Frequency A (day/year)			
Descriptor B		High End	
Quantity B (kg/site/day)			
Frequency B (day/year)			
From			
Workers			
Exposure Type			

V. Summary of Exposures/Releases

Engineering Summary: P-09-0045

Exposures/Releases	Release	Release	Release
Scenario			
Sites			
Media			
Descriptor A	Output 2	Output 2	High End
Quantity A (kg/site/day)			
Frequency A (day/year)			
Descriptor B			
Quantity B (kg/site/day)			
Frequency B (day/year)			
From			
Workers			
Exposure Type			

Engineering Summary: Exposures/Releases	Exposure	Exposure	Exposure
Scenario			
Sites			
Media			
Descriptor A	High End	High End	High End
Quantity A (kg/site/day)			
Frequency A (day/year)			
Descriptor B			
Quantity B (kg/site/day)			
Frequency B (day/year)			
From			
Workers			
Exposure Type			

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Engineering Summary: P-09-0045

Exposures/Releases	Exposure	Exposure	
Scenario			
Sites			
Media			
Descriptor A	High End	High End	
Quantity A (kg/site/day)			
Frequency A (day/year)			
Descriptor B			
Quantity B (kg/site/day)			
Frequency B (day/year)			
From			
Workers			
Exposure Type			

VI. Focus Decision and Rationale

Regulatory Actions

Regulatory Decision: PMN Drop

Decision Date: 12/01/2008

Type of Decision:

Rationale:

P09-0045 was dropped from further review. Concerns for potential risks to human health were low. Inhalation exposures were negligible from manufacturing, processing and use. Ecotoxicity concerns were low, potential risks to the environment were also low. This was an EAB drop. This case was the same as [REDACTED] which was going to be regulated under TSCA section 5(e) exposure based category but was later withdrawn. The company addressed exposure based issues by conducting an ready biodegradation study.

Summary of Exposures & Releases:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

P2 Rec Comments:

Testing:

Final Recommended:

Health:

Eco:

Fate:

Other: